

Integrating Unmanned Aircraft Systems into the NAS

Manned and Unmanned Aircraft
in proximate airspace

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Overview

- **UAS Development Needs**
- **Interim Operational Guidance**
 - Updated March 13, 2008
- **UAPO Certificate of Waiver/Authorization (COA) Review Process**
 - Based on a Safety approach
 - Each case evaluated individually
 - Identify appropriate operational mitigations

UAS Development Needs

- **Regulatory and Standards Development**
 - Certification Criteria (System)
 - Operational Criteria
 - Consistent loss link procedures
 - Flight termination systems
 - Pilot Qualifications/Medical Standards

Interim Operational Guidance 08-01

- **Interim Operational Guidance**
 - Used in review of each COA
 - Provides consistency in COA reviews
 - Culmination of best practices and procedures
 - Identifies acceptable mitigation approaches



COA Review Process – Concurrent Use of Manned/Unmanned Ops

- **Addresses the integration of manned and unmanned operations**
- **Mitigations include:**
 - No simultaneous manned/unmanned operations in the traffic pattern
 - Ensure NOTAM is issued
 - UAS Civil airport operations are limited
 - If approved, operations are routinely segregated
 - UAS must monitor appropriate CTAF or Unicom Frequencies

Summary

- **The Challenges of Integrating UAS are many**
 - UAS must comply with existing FARs
- **COA review process addresses integrations issues and identifies acceptable mitigations**
- **This is Not a Race – It's about Safety**

